

FORM PTO-1449, Adapted

LIST OF INFORMATION DISCLOSED BY APPLICANT

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ATTY. DOCKET NO. 07982.105010	SERIAL NO. 10/032,586	FILING DATE December 21, 2001
APPLICANT Vrazel et al.	GROUP 2635 2819	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JBTD	AA	4,580,263	04/01/86	Watanabe et al.			10/21/83
	AB	5,515,196	5/7/1996	Kitajima et al.			4/2/1993
	AC	5,621,764	04/15/97	Ushirokawa et al.			6/21/95
	AD	5,751,726	05/12/98	Kim, You Taeq			8/9/95
	AE	5,790,595	8/04/98	Benthin et al.			9/5/95
JBTD	AF	5,968,198	10/19/99	Hassan et al.			8/16/96
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FOREIGN PATENT DOCUMENTS

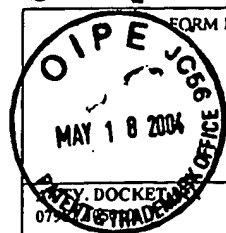
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JBTD	AL	WO 2004/045078 A2	5/27/04	PCT	Kim et al.	
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

JBTD	AP	International Search Report for PCT Application No. PCT/US03/35887 dated June 4, 2004.
JBTD	AQ	International Preliminary Examination Report for PCT Application No. PCT/US03/12422 dated July 8, 2004.

EXAMINER	Jean Bruner Jean Lander	DATE CONSIDERED	12/13/05
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10/032,586FILING DATE
December 21, 2001APPLICANT
Vrazel et al.GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JB	AA	5,181,136	1/19/1993	Kavehrad et al.			9/20/1990
	AB	5,625,722	4/29/1997	Froberg et al.			12/21/1994
	AC	6,002,717	12/14/1999	Gaudet, Brian			5/28/1997
	AD	6,388,786 B1	5/14/2002	Ono et al.			6/13/2000
	AE	6,421,155 B1	7/16/2002	Yano, Yutaka			5/27/1998
	AF	6,501,792 B2	12/31/2002	Webster, Stephen Paul			9/6/2001
	AG	6,665,500 B2	12/16/2003	Snawerdt, Peter			1/29/2001
	AH	2002/0196508 A1	12/26/2002	Wei et al.			10/4/2001
JB	AI	2003/0002121 A1	1/2/2003	Miyamoto et al.			6/26/2002
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
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JB	AL	WO 02/067521 A1	8/29/2002	PCT	Vrazel et al.		
	AM	WO 02/091600 A2	11/14/2002	PCT	Schmukler et al.		
	AN	WO 03/077423 A2	9/18/2003	PCT	Hietala et al.		
	AO	WO 03/092237 A1	11/6/2003	PCT	Vrazel et al.		
JB	AP	WO 2004/008782 A2	1/22/2004	PCT	Kim et al.		
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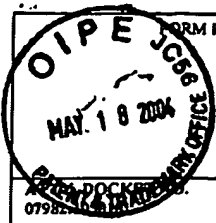
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Jian Bruner Jian Hanchi

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APPLICANT Vrazel et al.	SERIAL NO. 10/032,586	FILING DATE December 21, 2001	RECEIVED MAY 20 2004 Technology Center 2600
GROUP 2874 2819			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

SPB	BA	Choi et al.; <i>A 0.18-μm CMOS 3.5-Gb/s Continuous-Time Adaptive Cable Equalizer Using Enhanced Low-Frequency Gain Control Method</i> ; IEEE Journal of Solid-State Circuits; March 2004; Vol. 39, No. 3; pp. 419-425
	BB	Paul, et al.; <i>3 Gbit/s Optically Preamplified Direct Detection DPSK Receiver With 116 photon/bit Sensitivity</i> ; Electronics Letters; Vol. 29, No. 7; April 1, 1993; pp. 614-615
	BC	Penninckx et al.; <i>Optical Differential Phase Shift Keying (DPSK) Direct Detection Considered as a Duobinary Signal</i> ; Proc. 27 th Eur. Conf. on Opt. Comm. (ECOC'01 - Amsterdam); Vol. 3; September 30 to October 4, 2001; pp. 456-457
	BD	Rohde et al.; <i>Robustness of DPSK Direct Detection Transmission Format in Standard Fibre WDM Systems</i> ; Electronics Letters; Vol. 36, No. 17; August 17, 2000; pp. 1483-1484
MRD	BE	Shirasaki et al.; <i>Fibre Transmission Properties of Optical Pulses Produced Through Direct Phase Modulation of DFB Laser Diode</i> ; Electronics Letters; Vol. 24, No. 8; April 14, 1988; pp. 486-488
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EXAMINER <i>Alan Bruner Jean Claude</i>	DATE CONSIDERED 12/13/05
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GROUP 2874- 2819			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JB	AA	4,978,957	12/18/1990	Hotta et al.			2/6/1990
	AB	5,428,643	6/27/1995	Charles J. H. Razzell			7/28/1993
	AC	5,706,008	1/6/1998	Huntley et al.			3/1/1996
JB	AD	5,828,329	10/27/1998	Lawrence M. Burns			12/5/1996
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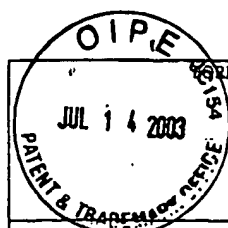
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	International Search Report dated September 26, 2002; International Application No. PCT/US02/14459
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EXAMINER Jian Bruner Jian Hanch	DATE CONSIDERED 12/13/05
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07982.105010SERIAL NO.
10/032,586FILING DATE
December 21, 2001APPLICANT
Vrazel et al.GROUP
~~2874~~ 2819**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JBV	AA	4,521,883	6/4/1985	Bernard Roché			6/21/1982
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO.
JBV	AM	GB 2 306 066 A	4/23/1997	United Kingdom	Northern Telecom Limited	
	AN					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

JBV	AO	International Search Report dated May 29, 2003 for International Application No. PCT/US03/04626
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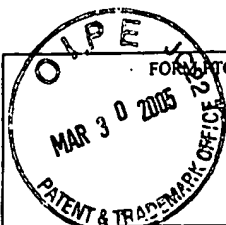
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Alan Bruner Jean Leavelle

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FORM TPO-1449, Adapted

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ATTY. DOCKET NO. 07982.105010	SERIAL NO. 10/032,586	FILING DATE December 21, 2001
APPLICANT Vrazel et al.		GROUP 2633 2819

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MBZ	AA	5,428,831	6/27/1995	Monzello et al.	455	296	1/8/1993
	AB	5,444,864	8/22/1995	Smith, Winthrop W.	455	84	12/22/1992
	AC	5,606,734	2/25/1997	Bahu, Mark B.	455	303	3/2/1993
	AD	5,691,978	11/25/1997	Kenworthy, Gary Robert	370	278	1/21/1997
	AE	6,011,952	1/4/2000	Dankberg et al.	455	24	1/20/1998
	AF	6,169,912 B1	1/2/2001	Zuckerman, Lawrence H.	455	570	3/31/1999
	AG	6,311,045 B1	10/30/2001	Domokos, John	455	78	7/28/1998
	AH	6,313,713 B1	11/6/2001	Ho et al.	333	1.1	9/28/1999
MBZ	AI	6,539,204 B1	3/25/2003	Marsh et al.	455	63	9/29/2000
	AJ						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO
MBZ	AK	WO 2005/018134 A2	2/24/2005	PCT	Quellan, Inc.	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

MBZ	AL	Kannangara et al.; <i>Adaptive Duplexer for Multiband Transceiver</i> ; Radio and Wireless Conference; August 10-13, 2003; RAWCON '03; pp. 381-384
	AM	Kannangara et al.; <i>Adaptive Duplexer for Software Radio</i> ; Approximate Date: November 11-13, 2002
	AN	Kannangara et al.; <i>An Algorithm to Use in Adaptive Wideband Duplexer for Software Radio</i> ; IEICE Transactions on Communications; December 2003; Vol. E86-B, No. 12; pp. 3452-3455
	AO	Kannangara et al.; <i>Performance Analysis of the Cancellation Unit in an Adaptive Wideband Duplexer for Software Radio</i> ; ATCrc Telecommunications and Networking Conference & Workshop, Melbourne, Australia, December 11-12, 2003
MBZ	AP	Williamson et al., <i>Performance Analysis of Adaptive Wideband Duplexer</i> ; 2003 Australian Telecommunications, Networks and Applications Conference (ATNAC); December 8-10, 2003
	AQ	

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EXAMINER <i>Sam Bruner Jean Mando</i>	DATE CONSIDERED 12/13/05
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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 APPLICATION NO.
 07982.105010

 SERIAL NO.
 10/032,586

 FILING DATE
 December 21, 2001

 APPLICANT
 Vrazel et al.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JB	AA	6,295,325 B1	9/25/2001	Farrow et al.	375	327	7/14/1998
I	AB	6,819,166 B1	11/16/2004	Choi et al.	327	551	3/31/2003
JB	AC	2003/0053534 A1	3/20/2003	Sivadas et al.	375	229	9/19/2001
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO
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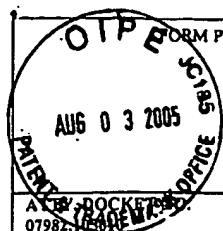
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APT-DOCKET 07982-10000	SERIAL NO. 10/032,586	FILING DATE December 21, 2001
APPLICANT Vrazel et al.		GROUP 2633 2819

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JBJ	AA	6,356,374 B1	3/12/2002	Farhan, Forrest M.	359	180	10/9/1998
	AB	6,411,117 B1	6/25/2002	Hatamian, Mehdi	324	765	11/12/1999
	AC	6,816,101 B2	11/9/2004	Hietala et al.	341	155	3/7/2003
	AD	2004/0213354 A1	10/28/2004	Jones et al.	375	285	4/28/2003
JBJ	AE	2004/0218756 A1	11/4/2004	Tang et al.	379	417	4/30/2004
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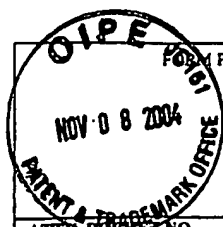
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JBJ	AJ	WO 2002/082694 A1	10/17/2002	PCT	Quellan, Inc.		
JBJ	AK	WO 2003/071731 A1	8/28/2003	PCT	Quellan, Inc.		
JBJ	AL	WO 2005/05089 A2	6/2/2005	PCT	Quellan, Inc.		
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER <i>Glan Buner glanzlande</i>	DATE CONSIDERED 12/13/05
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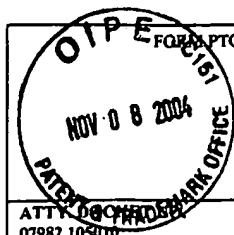
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DBZ	AA	3,599,122	8/10/1971	Leuthoki, Peter	333	29	10/6/1969
	AB	4,288,872	9/8/1981	Tamburelli, Giovanni	375	14	5/9/1980
	AC	4,475,227	10/2/1984	Belfield, William R.	381	30	4/14/1982
	AD	4,953,041	8/28/1990	Huber, William D.	360	46	1/24/1989
	AE	5,483,552	1/9/1996	Shimazaki et al.	375	233	10/27/1993
	AF	5,617,135	4/1/1997	Noda et al.	348	12	9/2/1994
	AG	5,648,987	7/15/1997	Yang et al.	375	232	3/24/1994
	AH	5,692,011	11/25/1997	Nobakht et al.	375	233	4/18/1996
	AI	5,699,022	12/16/1997	Tovar, Oscar A.	333	18	2/9/1996
	AJ	5,774,505	6/30/1998	Baugh, Richard A.	375	348	4/4/1996
	AK	5,978,417	11/2/1999	Baker et al.	375	232	9/13/1996
	AL	6,052,420	4/18/2000	Yeap et al.	375	346	5/14/1998
	AM	6,169,764 B1	1/2/2001	Babanezhad, Joseph N.	375	233	3/19/1998
	AN	6,665,348 B1	12/16/2003	Feher, Kamilo	375	259	8/9/1999
	AO	6,751,587 B2	6/15/2004	Thyssen et al.	704	228	8/12/2002
	AP	2003/0058976 A1	3/27/2003	Ohta et al.	375	350	10/23/2002
DBZ	AQ	2003/0067990 A1	4/10/2003	Bryant, Paul Henry	375	259	10/1/2001
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ATTY. DO SCHWAB 07982.105010	SERIAL NO. 10/032,586	FILING DATE December 21, 2001
APPLICANT Vrazel et al.		GROUP 2653 2819

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
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DBJ	BA	WO 2004/088857 A2	10/14/2004	PCT	Vrazel, Michael		
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

DBJ	BK	Weger et al.; Gilbert Multiplier as an Active Mixer with Conversion Gain Bandwidth of up to 17GHz; Electronics Letters; 28 th March 1991; Vol. 27, No. 7; pp. 570-571
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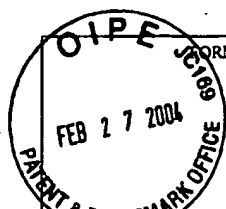
J. L. Bruner, J. L. Bruner

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ATTY Docket No. 07982.105018		SERIAL NO. 10/032,586		FILING DATE December 21, 2001			
APPLICANT Vrazel et al.				GROUP 2819			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JBJ	AA	4,942,593	7/17/1990	Whiteside et al.			3/16/1989
	AB	5,072,221	12/10/1991	Schmidt, Robert R.			8/4/1988
	AC	5,184,131	2/2/1993	Ikeda, Hiroshi			6/20/1990
	AD	5,223,834	6/29/1993	Wang et al.			11/29/1991
	AE	5,300,930	4/5/1994	Burger et al.			10/29/1991
	AF	5,382,955	1/17/1995	Knierim, Daniel G.			11/4/1993
	AG	5,481,568	1/2/1996	Yada, Hiroaki			12/21/1994
	AH	5,801,657	9/1/1998	Fowler et al.			2/5/1997
	AI	5,825,211	10/20/1998	Smith et al.			10/22/1997
	AJ	5,844,436	12/1/1998	Altmann, Michael			11/6/1996
	AK	5,920,600	7/6/1999	Yamaoka et al.			9/17/1996
	AL	5,943,380	8/24/1999	Marchesani et al.			3/28/1997
	AM	6,002,274	12/14/1999	Smith et al.			9/29/1995
	AN	6,084,931	7/4/2000	Powell, II et al.			10/31/1997
	AO	6,288,668 B1	9/11/2001	Tsukamoto et al.			2/21/1996
	AP	6,473,131 B1	10/29/2002	Neugebauer et al.			6/30/2000
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EXAMINER <i>Alan Bruner Alan Hanch</i>				DATE CONSIDERED 12/13/05			
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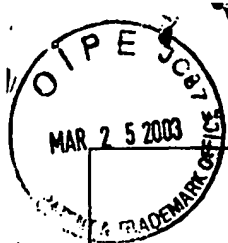
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JB72	BA	2 223 369 A	4/4/1990	GB	Joy et al.		
	BB						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

JB72	BC	Chi et al.; <i>Transmission Performance of All-Optically Labelled Packets Using ASK/DPSK Orthogonal Modulation</i> ; The 15 th Annual Meeting of the IEEE Lasers and Electro-Optics Society, 2002; LEOS 2002; 10-14 November 2002; Vol. 1:51-52. The whole document.
	BD	Chiang et al.; <i>Implementation of STARNET: A WDM Computer Communications Network</i> ; IEEE Journal on Selected Areas in Communications; June 1996; Vol. 14, No. 5; pp. 824-839
	BE	Kaess et al.; <i>New Encoding Scheme for High-Speed Flash ADC's</i> ; IEEE International Symposium on Circuits and Systems; June 9-12, 1997; Hong Kong; pp. 5-8
	BF	Kaiser et al.; <i>Reduced Complexity Optical Duobinary 10-Gb/s Transmitter Setup Resulting in an Increased Transmission Distance</i> ; IEEE Photonics Technology Letters; August 2001; Vol. 13; No. 8; pp. 884-886
	BG	Ohm et al.; <i>Quaternary Optical ASK-DPSK and Receivers with Direct Detection</i> ; IEEE Photonics Technology Letters; January 2003; Vol. 15, No. 1; pp. 159-161
	BH	Runge et al.; <i>High-Speed Circuits for Lightwave Communications</i> ; 1999; World Scientific, pp. 181-184
	BI	Vodhanel et al.; <i>Performance of Directly Modulated DFB Lasers in 10-Gb/s ASK, FSK, and DPSK Lightwave Systems</i> ; Journal of Lightwave Technology; September 1990; Vol. 8, No. 9; pp. 1379-1386
	BJ	Wakimoto et al.; <i>Si Bipolar 2-GHz 6-bit Flash A/D Conversion LSI</i> ; IEEE Journal of Solid-State Circuits; December 1988; Vol. 23, No. 6; pp. 1345-1350
JB72	BK	Westphal et al.; <i>Lightwave Communications</i> ; 1994; Thursday Afternoon/CLEO '94; pp. 337-338
	BL	
	BM	
	BN	
	BO	
	BP	
	BQ	
	BR	

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TC 2800 MAIL ROOM**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ABO	AA	4,464,771	8/7/1984	Sorenson, Bendt H.			4/2/1982
	AB	4,618,941	10/21/1986	Linder et al.			9/19/1983
	AC	4,912,726	3/27/1990	Iwamatsu et al.			1/8/1988
	AD	5,115,450	5/19/1992	Arcuri, Salvatore			7/6/1989
	AE	5,121,411	6/9/1992	Fluharty, Kevin L.			7/24/1990
	AF	5,208,833	5/4/1993	Erhart et al.			4/8/1991
	AG	5,237,590	8/17/1993	Kazawa et al.			12/11/1991
	AH	5,321,543	6/14/1994	Huber, David R.			10/20/1992
	AI	5,872,468	2/16/1999	Dyke, Peter J.			6/12/1997
	AJ	6,034,996	3/7/2000	Herzberg, Hanan			10/2/1997
	AK	6,072,364	6/6/2000	Jeckeln et al.			6/17/1997
ABJ2	AL	6,317,469 B1	11/13/2001	Herbert, Brian K.			6/28/1996

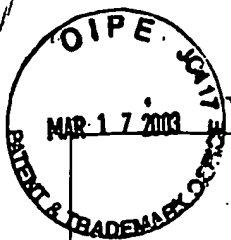
FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO.
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AN					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

AO	
AP	
AQ	

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U.S. PATENT DOCUMENTS

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<i>JB</i>	AA	3,977,795	8/31/1976	Buschmann, Hans-Theo			2/11/1974
	AB	4,287,756	9/8/1981	Gallagher, John J.			10/24/1979
	AC	4,349,914	9/14/1982	Evans, Randall G.			4/1/1980
	AD	4,363,127	12/7/1982	Evans et al.			1/12/1981
	AE	4,387,461	6/7/1983	Evans, Randall G.			3/11/1981
	AF	4,393,499	7/12/1983	Evans, Randall G.			3/11/1981
	AG	4,830,493	5/16/1989	Giebel, Robert			10/29/1987
	AH	4,847,521	7/11/1989	Huignard et al.			12/22/1987
	AI	5,007,106	4/9/1991	Kahn et al.			11/8/1989
	AJ	5,067,126	11/19/1991	Moore, Thomas E.			8/4/1989
	AK	5,128,790	7/7/1992	Heidemann et al.			9/12/1991
	AL	5,283,679	2/1/1994	Wedding, Berthold			12/10/1991
	AM	5,291,031	3/1/1994	MacDonald et al.			4/6/1992
	AN	5,371,625	12/6/1994	Wedding et al.			1/29/1993
	AO	5,376,786	12/27/1994	MacDonald, R. Ian			4/22/1993
	AP	5,413,047	5/9/1995	Evans et al.			10/15/1993
	AQ	5,436,752	7/25/1995	Wedding, Berthold			10/28/1993
<i>JB</i>	AR	5,436,756	7/25/1995	Knox et al.			9/30/1992

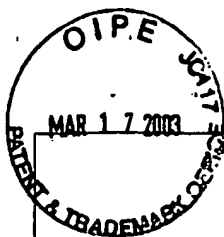
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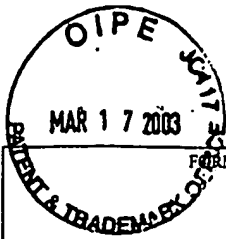
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-2874- 2819**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JBZ	BA	5,528,710	6/18/1996	Burton et al.			5/5/1993
	BB	5,574,743	11/12/1996	van der Poel et al.			3/21/1995
	BC	5,612,653	3/18/1997	Dodds et al.			6/7/1995
	BD	5,670,871	9/23/1997	Man et al.			7/16/1996
	BE	5,721,315	2/24/1998	Evans et al.			8/16/1995
	BF	5,723,176	3/3/1998	Keyworth et al.			7/8/1996
	BG	5,754,681	5/19/1998	Watanabe et al.			6/22/1995
	BH	5,783,630	7/21/1998	Evans et al.			7/7/1995
	BI	5,784,032	7/21/1998	Johnston et al.			11/1/1995
	BJ	5,812,578	9/22/1998	Schemmann et al.			6/16/1995
	BK	5,825,257	10/20/1998	Klymyshyn et al.			6/17/1997
	BL	5,839,105	11/17/1998	Ostendorf et al.			11/29/1996
	BM	5,841,841	11/24/1998	Dodds et al.			3/14/1996
	BN	5,848,139	12/8/1998	Grover, Wayne D.			11/19/1996
	BO	5,850,505	12/15/1998	Grover et al.			11/1/1995
	BP	5,852,389	12/22/1998	Kumar et al.			4/17/1997
	BQ	5,861,966	1/19/1999	Ortel, William G.			12/27/1995
mo	BR	5,878,390	3/2/1999	Kawai et al.			6/23/1997

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U.S. PATENT DOCUMENTS

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JB	CA	5,880,870	3/9/1999	Sieben et al.			10/28/1996
	CB	5,887,022	3/23/1999	Lee et al.			6/12/1996
	CC	5,889,759	3/30/1999	McGibney, Grant			8/13/1996
	CD	5,912,749	6/15/1999	Harstead et al.			2/11/1997
	CE	5,942,576	8/24/1999	Evans et al.			11/3/1997
	CF	5,943,457	8/24/1999	Hayward et al.			3/24/1998
	CG	5,949,926	9/7/1999	Davies, Robert J.			12/15/1997
	CH	5,959,032	9/28/1999	Evans et al.			7/8/1996
	CI	5,959,750	9/28/1999	Eskildsen et al.			6/6/1996
	CJ	5,965,667	10/12/1999	Evans et al.			11/3/1997
	CK	5,983,178	11/9/1999	Naito et al.			12/10/1998
	CL	5,985,999	11/16/1999	Dominguez et al.			4/23/1997
	CM	5,999,300	12/7/1999	Davies et al.			6/12/1997
	CN	6,009,424	12/28/1999	Lepage et al.			9/3/1997
	CO	6,021,110	2/1/2000	McGibney, Grant			1/26/1999
	CP	6,028,658	2/22/2000	Hamada et al.			11/25/1998
	CQ	6,031,048	2/29/2000	Evans et al.			7/12/1996
JB	CR	6,031,866	2/29/2000	Oler et al.			5/30/1997

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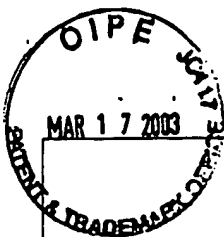
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JB	DA	6,035,080	3/7/2000	Henry et al.			6/20/1997
	DB	6,041,299	3/21/2000	Schuster et al.			3/11/1998
	DC	6,093,496	7/25/2000	Dominguez et al.			5/12/1998
	DD	6,093,773	7/25/2000	Evans et al.			8/3/1999
	DE	6,108,474	8/22/2000	Eggleton et al.			12/11/1997
	DF	6,111,477	8/29/2000	Klymyshyn et al.			4/17/1997
	DG	6,118,563	9/12/2000	Boskovic et al.			9/18/1998
	DH	6,127,480	10/3/2000	Dominguez et al.			10/19/1999
	DI	6,140,416	10/31/2000	Evans et al.			8/3/1999
	DJ	6,140,972	10/31/2000	Johnston et al.			12/28/1998
	DK	6,141,127	10/31/2000	Boivin et al.			2/20/1998
	DL	6,163,638	12/19/2000	Eggleton et al.			10/29/1998
	DM	6,201,916 B1	3/13/2001	Eggleton et al.			3/15/1999
	DN	6,208,792 B1	3/27/2001	Hwang et al.			9/20/1999
	DO	6,214,914 B1	4/10/2001	Evans et al.			8/3/1999
	DP	6,219,633 B1	4/17/2001	Lepage, Yves			8/6/1999
	DQ	6,226,112 B1	5/1/2001	Denk et al.			6/18/1998
JB	DR	6,236,963 B1	5/22/2001	Naito et al.			3/16/1999

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MBJ	EA	6,259,836 B1	7/10/2001	Dodds, David E.			5/14/1998
	EB	6,259,847 B1	7/10/2001	Lenz et al.			4/7/1999
	EC	6,271,944 B1	8/7/2001	Schemmann et al.			6/30/1999
	ED	6,289,151 B1	9/11/2001	Kazarinov et al.			10/30/1998
MBJ	EE	6,341,023 B1	1/22/2002	Puc, Angrej B.			7/23/1999
	EF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
						YES	NO.
MBJ	EG	WO 01/41346 A2	6/7/2001	PCT	Fishman et al.		
	EH						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

MBJ	EI	Fürst et al.; Performance Limits of Nonlinear RZ and NRZ Coded Transmission at 10 and 40 Gb/s on Different Fibers; pp. 302 - 304 (no date)
	EJ	Garrett, Ian; Pulse-Position Modulation for Transmission Over Optical Fibers with Direct or Heterodyne Detection; IEEE Transactions on Communications; Vol. COM-31; No. 4; April 1983; pp. 518 - 527
	EK	Idler et al.; 40 Gbit/s Quaternary Dispersion Supported Transmission Field Trial Over 86 km Standard Singlemode Fibre; 24 th European Conference on Optical Communication; September, 1998; pp. 145 - 147
	EL	Ohtsuki et al.; BER Performance of Turbo-Coded PPM CDMA Systems on Optical Fiber; Journal of Lightwave Technology; Vol. 18; No. 12; December, 2000; pp. 1776 - 1784
	FA	Vorenkamp et al.; A 1Gs/s, 10b Digital-to-Analog Converter; ISSCC94/Session 3/Analog Techniquet/Paper WP 3.3; pp. 52 - 53 (no date)
	FB	Walkin et al.; A 10 Gb/s 4-ary ASK Lightwave System; ECOC; 1997; pp. 255 - 258 (no month)
	FC	Walklin et al.; Multilevel Signaling for Extending the Dispersion-Limited Transmission in High-Speed, Fiber Optic Communication Systems; IEEE; 1996; pp. 233 - 236 (no date)
	FD	Walklin et al.; Multilevel Signaling for Increasing the Reach of 10 Gb/s Lightwave Systems; IEEE Journal of Lightwave Technology; Vol. 17; No. 11; November, 1999; pp. 2235 - 2248
MBJ	FE	Wedding et al.; Multi-level Dispersion Supported Transmission at 20 Gbit/s Over 46 km Installed Standard Singlemode Fibre; 22 nd European Conference on Optical Communication; 1996; pp.91 - 94 (no month)

EXAMINER <i>Jan Bruner Jan Hudec</i>	DATE CONSIDERED <i>12/13/05</i>
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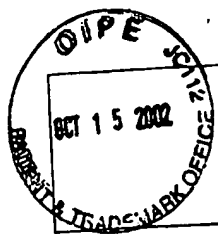
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		2,632,058	3/17/1953	Frank Gray			11/13/1947
AB		3,445,771	5/20/1969	Clapham et al.			2/28/1966
AC		3,571,725	3/23/1971	Kaneko et al.			5/22/1968
AD		3,714,437	1/30/1973	Tracy Stewart Kinsel			8/14/1970
AE		3,806,915	4/23/1974	Higgins et al.			9/5/1972
AF		4,386,339	5/31/1983	Henry et al.			4/5/1982
AG		4,470,126	9/4/1984	Yusuf A. Haque			10/29/1981
AH		4,479,266	10/23/1984	Eumurian et al.			8/10/1982
AI		4,584,720	4/22/1986	Ian Garrett			8/30/1983
AJ		4,651,026	3/17/1987	Serfaty et al.			6/11/1984
AK		4,751,497	6/14/1988	Toshihiro Torii			4/18/1986
AL		4,864,590	9/5/1989	Arnon et al.			6/30/1988
AM		4,959,535	9/25/1990	Ian Garrett			10/10/1989
AN		5,008,957	4/16/1991	Mikio Klyono			3/3/1989
AO		5,012,475	4/30/1991	Bruce D. Campbell			4/17/1990
AP		5,111,065	5/5/1992	James K. Roberge			3/23/1990
AQ		5,113,278	5/12/1992	Degura et al.			4/20/1990
AR		5,132,639	7/21/1992	Blauvelt et al.			2/8/1991

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JBSJG	BA	5,151,698	9/29/1992	Lucien Pophillat			9/18/1990
	BB	5,181,034	1/19/1993	Takakura et al.			4/29/1992
	BC	5,222,103	6/22/1993	Richard W. Gross			1/2/1991
	BD	5,225,798	7/6/1993	Hunsinger et al.			5/31/1991
	BE	5,243,613	9/7/1993	Gysel et al.			11/5/1991
	BF	5,252,930	10/12/1993	Henry A. Blauvelt			7/21/1992
	BG	5,282,072	1/25/1994	Nazarathy et al.			11/19/1991
	BH	5,293,406	3/8/1994	Hiroshi Suzuki			3/11/1992
	BI	5,321,710	6/14/1994	Cornish et al.			4/19/1993
	BJ	5,327,279	7/5/1994	Farina et al.			7/17/1992
	BK	5,343,322	8/30/1994	Pirio et al.			12/23/1992
	BL	5,351,148	9/27/1994	Maeda et al.			5/26/1993
	BM	5,355,240	10/11/1994	Prigent et al.			9/1/1992
	BN	5,361,156	11/1/1994	Rezin E. Pidgeon			12/9/1991
	BO	5,373,384	12/13/1994	Jean-Paul Hebert			7/30/1993
	BP	5,387,887	2/7/1995	Zimmerman et al.			3/4/1994
	BQ	5,408,485	4/18/1995	Gordon W. Ries			5/11/1994
JBSJG	BR	5,416,628	5/16/1995	Betti et al.			11/9/1992

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DBJ	CA	5,418,637	5/23/1995	Chien-Yu Kuo			5/16/1994
	CB	5,424,680	6/13/1995	Nazarathy et al.			11/30/1993
	CC	5,450,044	9/12/1995	Timothy P. Hulick			4/14/1993
	CD	5,481,389	1/2/1996	Pidgeon et al.			10/9/1992
	CE	5,504,633	4/2/1996	Gijsbert J. Van Den Enden			11/21/1994
	CF	5,510,919	4/23/1996	Berthold Wedding			11/28/1994
	CG	5,548,253	8/20/1996	Randolph L. Durrant			4/17/1995
	CH	5,589,786	12/31/1996	Bella et al.			6/1/1995
	CI	5,625,360	4/29/1977	Garrity et al.			9/5/1995
	CJ	5,644,325	7/1/1997	King et al.			12/12/1994
	CK	5,675,600	10/7/1997	Yamamoto			6/11/1996
	CL	5,678,198	10/14/1997	Paul H. Lemson			5/15/1995
	CM	5,689,356	11/18/1997	Attilio Joseph Rainal			7/26/1996
	CN	5,757,763	5/26/1998	Green et al.			6/13/1997
	CO	5,761,243	6/2/1998	Russell et al.			5/3/1996
	CP	5,764,542	6/9/1998	Gaudette et al.			1/11/1996
	CQ	5,798,854	8/25/1998	Blauvelt et al.			11/27/1996
DBJ	CR	5,802,089	9/1/1998	Garry N. Link			10/22/1996

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DA		5,825,825	10/20/1998	Altmann et al.			9/17/1996
DB		5,850,409	12/15/1998	Garry N. Link			3/21/1997
DC		5,859,862	1/12/1999	Hikasa et al.			6/20/1995
DD		5,883,910	3/16/1999	Garry N. Link			7/3/1997
DE		5,896,392	4/20/1999	Ono et al.			6/19/1997
DF		5,923,226	7/13/1999	Kakura et al.			8/12/1997
DG		6,031,874	2/29/2000	Chennakeshu et al.			9/26/1997
DH		6,072,615	6/6/2000	Pavel V. Mamyshev			6/13/1997
DI		6,078,627	6/20/2000	Ian Crayford			12/18/1997
DJ		6,091,782	7/18/2000	Nobuya Harano			7/21/1997
DK		6,118,567	9/12/2000	Alameh et al.			9/30/1997
DL		6,140,858	10/31/2000	Francois Dumont			11/18/1997
DM		6,141,387	10/31/2000	Qin Zhang			3/19/1998
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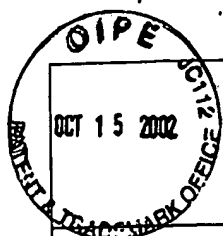
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APPLICANT Vrazel et al.		GROUP 2874 2819

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JBZ	EA	6,212,654 B1	4/3/2001	Lou et al.			7/22/1997
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